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Sequence Listing was accepted.

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Reviewer: markspencer

Timestamp: [year=2008; month=4; day=21; hr=8; min=30; sec=27; ms=387; ]

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Application No: 10501629 Version No: 2.0

**Input Set:****Output Set:**

**Started:** 2008-04-02 14:22:14.024  
**Finished:** 2008-04-02 14:22:15.825  
**Elapsed:** 0 hr(s) 0 min(s) 1 sec(s) 801 ms  
**Total Warnings:** 25  
**Total Errors:** 0  
**No. of SeqIDs Defined:** 25  
**Actual SeqID Count:** 25

Error code	Error Description
W 402	Undefined organism found in <213> in SEQ ID (1)
W 402	Undefined organism found in <213> in SEQ ID (2)
W 402	Undefined organism found in <213> in SEQ ID (3)
W 402	Undefined organism found in <213> in SEQ ID (4)
W 402	Undefined organism found in <213> in SEQ ID (5)
W 402	Undefined organism found in <213> in SEQ ID (6)
W 402	Undefined organism found in <213> in SEQ ID (7)
W 402	Undefined organism found in <213> in SEQ ID (8)
W 402	Undefined organism found in <213> in SEQ ID (9)
W 402	Undefined organism found in <213> in SEQ ID (10)
W 402	Undefined organism found in <213> in SEQ ID (11)
W 402	Undefined organism found in <213> in SEQ ID (12)
W 402	Undefined organism found in <213> in SEQ ID (13)
W 402	Undefined organism found in <213> in SEQ ID (14)
W 402	Undefined organism found in <213> in SEQ ID (15)
W 402	Undefined organism found in <213> in SEQ ID (16)
W 402	Undefined organism found in <213> in SEQ ID (17)
W 402	Undefined organism found in <213> in SEQ ID (18)
W 402	Undefined organism found in <213> in SEQ ID (19)
W 402	Undefined organism found in <213> in SEQ ID (20)

**Input Set:**

**Output Set:**

**Started:** 2008-04-02 14:22:14.024  
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**Actual SeqID Count:** 25

Error code

Error Description

This error has occurred more than 20 times, will not be displayed

# SEQUENCE LISTING

<110> Gurskaya, Nadejda  
 Fradkov, Arkadiy  
 Lukyanov, Sergey  
 Punkova, Natalia

<120> Fluorescent Protein From Aequorea Coerulscens And Uses Thereof

<130> EVRO-0006

<140> 10501629

<141> 2004-07-15

<141> 2005-07-15

<160> 25

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 941

<212> DNA

<213> Aequoria coerulescens

<400> 1

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aatggaatca aagttaactt caaaattaga cacaacattg aagatggaag cgttcaactt 600
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<210> 2

<211> 238

<212> PRT

<213> Aequoria coerulescens

<400> 2

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Glu Leu Asn Gly Asp Val Asn Gly His Lys Phe Ser Val Ser Gly Glu
          20          25          30
Gly Glu Gly Asp Ala Thr Tyr Gly Lys Leu Thr Leu Lys Phe Ile Cys
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35	40	45
Thr Thr Gly Lys Leu Pro Val Pro Trp Pro Thr Leu Val Thr Thr Phe		
50	55	60
Ser Tyr Gly Val Gln Cys Phe Ser Arg Tyr Pro Asp His Met Lys Gln		
65	70	75
His Asp Phe Phe Lys Ser Ala Met Pro Glu Gly Tyr Ile Gln Glu Arg		80
85	90	95
Thr Ile Phe Phe Lys Asp Asp Gly Asn Tyr Lys Ser Arg Ala Glu Val		
100	105	110
Lys Phe Glu Gly Asp Thr Leu Val Asn Arg Ile Glu Leu Thr Gly Thr		
115	120	125
Asp Phe Lys Glu Asp Gly Asn Ile Leu Gly Asn Lys Met Glu Tyr Asn		
130	135	140
Tyr Asn Ala His Asn Val Tyr Ile Met Thr Asp Lys Ala Lys Asn Gly		
145	150	155
Ile Lys Val Asn Phe Lys Ile Arg His Asn Ile Glu Asp Gly Ser Val		
165	170	175
Gln Leu Ala Asp His Tyr Gln Gln Asn Thr Pro Ile Gly Asp Gly Pro		
180	185	190
Val Leu Leu Pro Asp Asn His Tyr Leu Ser Thr Gln Ser Thr Leu Ser		
195	200	205
Lys Asp Pro Asn Glu Lys Arg Asp His Met Ile Tyr Phe Glu Phe Val		
210	215	220
Thr Ala Ala Ala Ile Thr His Gly Met Asp Glu Leu Tyr Lys		
225	230	235

<210> 3

<211> 717

<212> DNA

<213> *Aequoria coerulescens*

<400> 3

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atcaaagtta acttcaaaat tagacacaac attgaagatg gaagcgttca acttgcagac 540
cattatcaac aaaatactcc aattggcgat ggccctgtcc ttttaccaga taaccattac 600
ctgtccacac aatctaccct ttccaaagat cccaacgaaa agagagatca catgatctat 660
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<210> 4

<211> 238

<212> PRT

<213> *Aequoria coerulescens*

<400> 4

Met Ser Lys Gly Ala Glu Leu Phe Thr Gly Val Val Pro Ile Leu Ile
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5
10
15
Glu Leu Asn Gly Asp Val Asn Gly His Lys Phe Ser Val Ser Gly Glu
20
25
30
Gly Glu Gly Asp Ala Thr Tyr Gly Lys Leu Thr Leu Lys Phe Ile Cys

35	40	45
Thr Thr Gly Lys Leu Pro Val Pro Trp Pro Thr Leu Val Thr Thr Phe		
50	55	60
Ser Tyr Gly Val Gln Cys Phe Ser Arg Tyr Pro Asp His Met Lys Gln		
65	70	75
His Asp Phe Phe Lys Ser Ala Met Pro Glu Gly Tyr Ile Gln Glu Arg		80
	85	90
		95
Thr Ile Phe Phe Lys Asp Asp Gly Asn Tyr Lys Ser Arg Ala Glu Val		
	100	105
		110
Lys Phe Glu Gly Asp Thr Leu Val Asn Arg Ile Glu Leu Thr Gly Thr		
	115	120
		125
Asp Phe Lys Glu Asp Gly Asn Ile Leu Gly Asn Lys Met Glu Tyr Asn		
	130	135
		140
Tyr Asn Ala His Asn Val Tyr Ile Met Thr Asp Lys Ala Lys Asn Gly		
145	150	155
		160
Ile Lys Val Asn Phe Lys Ile Arg His Asn Ile Glu Asp Gly Ser Val		
	165	170
		175
Gln Leu Ala Asp His Tyr Gln Gln Asn Thr Pro Ile Gly Asp Gly Pro		
	180	185
		190
Val Leu Leu Pro Asp Asn His Tyr Leu Ser Thr Gln Ser Thr Leu Ser		
	195	200
		205
Lys Asp Pro Asn Glu Lys Arg Asp His Met Ile Tyr Phe Gly Phe Val		
	210	215
		220
Thr Ala Ala Ala Ile Thr His Gly Met Asp Glu Leu Tyr Lys		
225	230	235

<210> 5

<211> 717

<212> DNA

<213> *Aequoria coerulescens*

<400> 5

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gtcactactt tctcttatgg tgttcaatgc ttttcaagat atccagatca tatgaaacag 240
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aaagatgacg ggaactacaa gtcgcgtgct gaagtcaagt tcgaaggtga taccctggtt 360
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atggaataca actataacgc acataatgta tacatcatga cagacaaaagc aaaaaatgga 480
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cattatcaac aaaatactcc aattggcgat ggccctgtcc ttttaccaga taaccattac 600
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<210> 6

<211> 238

<212> PRT

<213> *Aequoria coerulescens*

<400> 6

Met Ser Lys Gly Ala Glu Leu Phe Thr Gly Val Val Pro Ile Leu Ile		
1	5	10
		15
Glu Leu Asp Gly Asp Val Asn Gly His Lys Phe Ser Val Ser Gly Glu		
	20	25
		30
Gly Glu Gly Asp Ala Thr Tyr Gly Lys Leu Thr Leu Lys Phe Ile Cys		

35	40	45
Thr Thr Gly Lys Leu Pro Val Pro Trp Pro Thr Leu Val Thr Thr Phe		
50	55	60
Ser Tyr Gly Val Gln Cys Phe Ser Arg Tyr Pro Asp His Met Lys Gln		
65	70	75
His Asp Phe Phe Lys Ser Ala Met Pro Glu Gly Tyr Ile Gln Glu Arg		
85	90	95
Thr Ile Phe Phe Lys Asp Asp Gly Asn Tyr Lys Ser Arg Ala Glu Val		
100	105	110
Lys Phe Glu Gly Asp Thr Leu Val Asn Arg Ile Glu Leu Thr Gly Thr		
115	120	125
Asp Phe Lys Glu Asp Gly Asn Ile Leu Gly Asn Lys Met Glu Tyr Asn		
130	135	140
Tyr Asn Ala His Asn Val Tyr Ile Met Thr Asp Lys Ala Lys Asn Gly		
145	150	155
Ile Lys Val Asn Phe Lys Ile Arg His Asn Ile Glu Asp Gly Ser Val		
165	170	175
Gln Leu Ala Asp His Tyr Gln Gln Asn Thr Pro Ile Gly Asp Gly Pro		
180	185	190
Val Leu Leu Pro Asp Asn His Tyr Leu Ser Thr Gln Ser Thr Leu Ser		
195	200	205
Lys Asp Pro Asn Glu Lys Arg Asp His Met Ile Tyr Phe Gly Phe Val		
210	215	220
Thr Ala Ala Ala Ile Thr His Gly Met Asp Glu Leu Tyr Lys		
225	230	235

<210> 7

<211> 720

<212> DNA

<213> *Aequoria coerulescens*

<400> 7

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cttgtcacta ctttctctta tgggtgttcaa tgcttttcaa gatatccaga tcatatgaaa 240
cagcatgact tcttcaagag tgccatgcct gaaggttata tacaggaaag aactatatatt 300
ttcgaagatg acgggaacta caagtcgcgt gctgaagtca agttcgaagg tgataccctg 360
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gaccattatc aacaaaatac tccaattggc gatggccctg tccttttacc agataaccat 600
tacctgtcca cacaatctac cctttccaaa gatcccaacg aaaagagaga tcacatgatc 660
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<210> 8

<211> 238

<212> PRT

<213> *Aequoria coerulescens*

<400> 8

Met Ser Lys Gly Ala Glu Leu Phe Thr Gly Ile Val Pro Ile Leu Ile		
1	5	10
Glu Leu Asn Gly Asp Val Asn Gly His Lys Phe Ser Val Ser Gly Glu		
20	25	30





Gly	Glu	Gly	Asp	Ala	Thr	Tyr	Gly	Lys	Leu	Thr	Leu	Lys	Phe	Ile	Cys
	35						40					45			
Thr	Thr	Gly	Lys	Leu	Pro	Val	Pro	Trp	Pro	Thr	Leu	Val	Thr	Thr	Leu
	50					55					60				
Ser	Tyr	Gly	Val	Gln	Cys	Phe	Ser	Arg	Tyr	Pro	Asp	His	Met	Lys	Gln
65					70					75					80
His	Asp	Phe	Phe	Lys	Ser	Ala	Met	Pro	Glu	Gly	Tyr	Ile	Gln	Glu	Arg
				85					90					95	
Thr	Ile	Phe	Phe	Glu	Asp	Asp	Gly	Asn	Tyr	Lys	Ser	Arg	Ala	Glu	Val
				100				105					110		
Lys	Phe	Glu	Gly	Asp	Thr	Leu	Val	Asn	Arg	Ile	Glu	Leu	Thr	Gly	Thr
				115				120					125		
Asp	Phe	Lys	Glu	Asp	Gly	Asn	Ile	Leu	Gly	Asn	Lys	Met	Glu	Tyr	Asn
	130					135					140				
Tyr	Asn	Ala	His	Asn	Val	Tyr	Ile	Met	Thr	Asp	Lys	Ala	Lys	Asn	Gly
145					150					155					160
Ile	Lys	Val	Asn	Phe	Lys	Ile	Arg	His	Asn	Ile	Glu	Asp	Gly	Ser	Val